

National Institute
of Standards and Technology



National Voluntary
Laboratory Accreditation Program

ISO/IEC GUIDE 25:1990
ANSI/NCSL Z540-1-1994
ISO 9002:1987

Scope of Accreditation



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CALIBRATION LABORATORIES

NVLAP LAB CODE 200115-0

BECHTEL B&W IDAHO, STANDARDS AND CALIBRATION LAB

P.O. Box 1625
Idaho Falls, ID 83415-4137
Mr. William J. Allred
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DIMENSIONAL

NVLAP Code: 20/D03
Gage Blocks

<i>Range</i>	<i>Best Uncertainty (\pm)^{note 1}</i>
0-4 in	3.4 - 4.5 μ in
5-8 in	4.5 - 5.9 μ in
10-12 in	6.9 - 7.8 μ in
16 in	9.8 μ in
20 in	11.8 μ in

December 31, 2003

Effective through

C. L. Faison

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ELECTROMAGNETICS -DC/LOW FREQUENCY

NVLAP Code: 20/E05

Resistance

<i>Range in Ohms</i>	<i>Best Uncertainty (\pm)^{note 1}</i>
0.1	0.35 ppm
1.0	0.3 ppm
10.0	0.35 ppm
100	0.5 ppm
1 k	0.6 ppm
10 k	0.5 ppm
100 k	1.0 ppm
1 M	5.0 ppm

NVLAP Code: 20/E06

DC Voltage

<i>Range</i>	<i>Best Uncertainty (\pm)^{note 1}</i>
10 volt Zener Reference	0.3 ppm

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TIME AND FREQUENCY

NVLAP Code: 20/F01

Frequency Dissemination

Range	Best Uncertainty (\pm) ^{note 1}	Remarks
0.1 MHz, 1 MHz, 5 MHz, 10 MHz	$1 \times 10^{-11}/24$ hours	NIST FMS System

NVLAP Code: 20/F03

Oscillator Characterization (Electronic Counters)

Range	Best Uncertainty (\pm) ^{note 1}	Remarks
0.1 MHz, 1 MHz, 5 MHz, 10 MHz	$5 \times 10^{-10}/24$ hours	NIST FMS System

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MECHANICAL

NVLAP Code: 20/M06

Force

Range in lbf	Best Uncertainty (\pm) % of F/S	Remarks
10 - 100	0.0063	Primary Standard (Deadweight)
101 - 200	0.0062	Primary Standard (Deadweight)
201 - 1000	0.0061	Primary Standard (Deadweight)
1000 - 5000	0.020	Secondary Standards (Proving Rings)
5001 - 10,000	0.021	Secondary Standards (Proving Rings)
10,001 - 30,000	0.026	Secondary Standards (Proving Rings)
30,001 - 50,000	0.023	Secondary Standards (Proving Rings)
50,001 -100,000	0.042	Secondary Standards (Proving Rings)
100 - 1000	0.073	Secondary Standards (Load Cells)
1001 - 3000	0.062	Secondary Standards (Load Cells)
3001 - 10,000	0.058	Secondary Standards (Load Cells)
10,001 - 30,000	0.060	Secondary Standards (Load Cells)
30,001 - 50,000	0.063	Secondary Standards (Load Cells)
50,001 - 100,000	0.144	Secondary Standards (Load Cells)

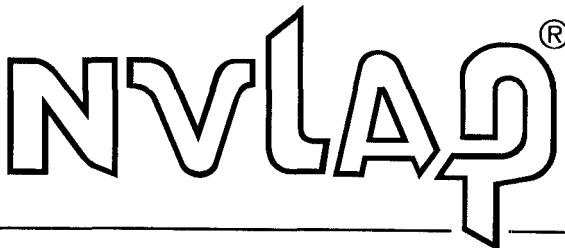
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NVLAP Code: 20/M08

Mass

Range	Best Uncertainty (\pm) in $\mu\text{g}^{\text{note } 1}$	Remarks
1 kg	115.67	Repetitive Double Substitution
500 g	66.46	Repetitive Double Substitution
200 g	54.37	Repetitive Double Substitution
100 g	29.80	Repetitive Double Substitution
50 g	7.22	Repetitive Double Substitution
20 g	6.02	Repetitive Double Substitution
10 g	2.65	Repetitive Double Substitution
5 g	4.19	Repetitive Double Substitution
2 g	4.92	Repetitive Double Substitution
1 g	3.87	Repetitive Double Substitution
0.5 g	3.27	Repetitive Double Substitution
0.2 g	1.59	Repetitive Double Substitution
0.1 g	1.51	Repetitive Double Substitution
0.05 g	0.81	Repetitive Double Substitution
0.02 g	0.77	Repetitive Double Substitution

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0.01 g	0.21	Repetitive Double Substitution
0.005 g	3.01	Repetitive Double Substitution
0.002 g	0.98	Repetitive Double Substitution
0.001 g	0.71	Repetitive Double Substitution

THERMODYNAMICS

NVLAP Code: 20/T05

Pressure

Range in psi	Best Uncertainty (\pm) in ppm ^{note 1}	Remarks
Deadweight Pressure Gauge - Direct Pressure Comparison		
0 - 18	41.0	Nitrogen
18 - 700	56.0	Nitrogen
700 - 4000	54.0	Oil
4000 - 40,000	73.0	Oil

1. Represents an expanded uncertainty using a coverage factor, k=2.

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